



Friday, July 20, 2018

Attn: Mr. Keith Gammell  
Barnhardt Mfg. Co.  
247 Main Rd  
P.O. Box 3  
Colrain, MA 01340

Project ID: NPDES JULY 2018  
Sample ID#s: CA87584

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis/Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

July 20, 2018

FOR: Attn: Mr. Keith Gammell  
Barnhardt Mfg. Co.  
247 Main Rd  
P.O. Box 3  
Colrain, MA 01340

### Sample Information

Matrix: WASTE WATER  
Location Code: BARNHARD  
Rush Request: Standard  
P.O.#: G-9811

### Custody Information

Collected by:  
Received by: LB  
Analyzed by: see "By" below

### Date

07/11/18  
07/11/18

### Time

7:00  
16:30

## Laboratory Data

SDG ID: GCA87584  
Phoenix ID: CA87584

Project ID: NPDES JULY 2018  
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Copper	0.027	0.003	mg/L	1	07/19/18	EK	E200.7
B.O.D./5 day	< 4.0	4.0	mg/L	2	07/11/18 17:10	MI/RM	SM5210B-11
Nitrite-N	< 0.500	0.500	mg/L	50	07/12/18 00:00	MC	E353.2
Nitrate-N	27.0	1.00	mg/L	50	07/12/18 16:33	MC	E353.2
Nitrogen Tot Kjeldahl	8.55	0.50	mg/L	5	07/13/18	WHM	E351.1
Total Nitrogen	35.6	0.10	mg/L	1	07/13/18	WHM	SM4500NH3/E300.0-97
Phosphorus, as P	4.12	0.050	mg/L	5	07/17/18	MI	SM4500PE-11
Total Suspended Solids	14	5.0	mg/L	1	07/12/18	KL/KDB	SM2540D-11
Total Metals Digestion	Completed				07/12/18	AG	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

If there are any questions regarding this data, please call Phoenix Client Services.  
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 20, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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## QA/QC Report

July 20, 2018

### QA/QC Data

SDG I.D.: GCA87584

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 438527 (mg/L), QC Sample No: CA87560 (CA87584)													
<u>ICP Metals - Aqueous</u>													
Copper	BRL	0.0025	0.018	0.0187	3.80	99.2			104			75 - 125	20



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## QA/QC Report

July 20, 2018

### QA/QC Data


SDG I.D.: GCA87584

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 439076 (mg/L), QC Sample No: CA86117 (CA87584)													
Phosphorus, as P	BRL	0.01	6.87	6.80	1.00	100			101			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 438261 (mg/L), QC Sample No: CA87338 (CA87584)													
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	83.3			103			70 - 130	20
B.O.D./5 day GGA BOD						75.8						84 - 115	20 I
QA/QC Batch 438552 (mg/L), QC Sample No: CA87426 (CA87584)													
Nitrate-N	BRL	0.02	<0.02	<0.02	NC	104			97.6			90 - 110	20
Nitrite-N	BRL	0.01	<0.010	<0.01	NC	102			103			90 - 110	20
QA/QC Batch 438500 (mg/L), QC Sample No: CA87533 (CA87584)													
Total Suspended Solids	BRL	5.0	9.0	10	NC	96.0						85 - 115	
QA/QC Batch 438560 (mg/L), QC Sample No: CA87537 (CA87584)													
Nitrogen Tot Kjeldahl	BRL	0.10	85.7	84.0	2.00	98.3			NC			85 - 115	20
Comment:													
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.													

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference  
LCS - Laboratory Control Sample  
LCSD - Laboratory Control Sample Duplicate  
MS - Matrix Spike  
MS Dup - Matrix Spike Duplicate  
NC - No Criteria  
Intf - Interference

  
Phyllis Shiller, Laboratory Director  
July 20, 2018

Friday, July 20, 2018

Criteria: None

State: MA

**Sample Criteria Exceedances Report**  
**GCA87584 - BARNHARD**

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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## Analysis Comments

July 20, 2018

SDG I.D.: GCA87584

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

